CLAIM AMENDMENTS

Please amend the claims as follows.

1. (Original) A method of increasing the conductivity of a fracture in a subterranean formation comprising the steps of:

providing a fracturing treatment fluid comprising a proppant composition, the proppant composition comprising proppant particulates and a degradable material capable of undergoing an irreversible degradation downhole;

introducing the proppant composition to the fracture; and

allowing the proppant composition to form a proppant matrix having voids in the fracture.

- 2. (Currently Amended) The method of claim 1 wherein the proppant particulates comprise sand, walnut hulls, or <u>man-made proppant particulates</u> a <u>man-made proppants</u>.
- 3. (Currently Amended) The method of claim 1 wherein the proppant particulates have a size of about 10 to about 60 US mesh.
- 4. (Original) The method of claim 1 wherein the proppant composition further comprises a curable resin, a tackifying agent, or both.
- 5. **(Original)** The method of claim 4 wherein the curable resin comprises an epoxy, furan, phenolic, furfuryl aldehyde, or furfuryl alcohol resin.
- 6. (Currently Amended) The method of claim 1 wherein the proppant composition comprises interlocking proppant <u>particulates</u>.
- 7. (Original) The method of claim 1 wherein the degradable material comprises a degradable polymer or a dehydrated salt.

- 8. (Currently Amended) The method of claim 7 wherein the degradable polymer comprises a polysaccharide, a chitin, a chitosan, a protein, an aliphatic polyester, a poly(lactide), a poly(glycolide), a poly(\varepsilon-caprolactone), a poly(hydroxybutyrate), a poly(amino acid); a poly(ethylene oxide), or a polyphosphazene polysaccharides, chitins, chitosans, proteins, aliphatic polyesters, poly(lactides), poly(glycolides), poly(\varepsilon-caprolactones), poly(hydroxybutyrates), polyanhydrides, aliphatic polycarbonates, poly(orthoesters), poly(amino acids); poly(ethylene oxides), or polyphosphazenes.
- 9. (Original) The method of claim 1 wherein the degradable material further comprises a plasticizer.
- 10. **(Original)** The method of claim 7 wherein the dehydrated salt comprises anhydrous sodium tetraborate or anhydrous boric acid.
- 11. (Original) The method of claim 1 wherein the degradable material comprises poly(lactic acid) and a compound chosen from the group consisting of sodium borate and boric oxide.
- 12. (Original) The method of claim 1 wherein the degradable material comprises a stereoisomer of a poly(lactide).
- 13. (Currently Amended) The method of claim 1 wherein the proppant composition comprises a poly(lactic acid) degradable material and bauxite proppant particulates, the bauxite proppant particulates at least partially having been coated with a curable epoxy resin, and a polylactic acid degradable material.
- 14. (Original) The method of claim 1 wherein the degradable material is present in the proppant composition in an amount sufficient to create a desirable number of voids in the proppant matrix.

- 15. (Original) The method of claim 1 wherein the degradable material is present in the proppant composition in an amount of about 0.1% to about 30% by weight of proppant particulates in the composition.
- 16. (Original) The method of claim 1 wherein the degradable material comprises particles having a rod-like shape.
- 17. (Original) The method of claim 1 wherein the degradable material comprises an inorganic or organic compound.
- 18. (Original) The method of claim 17 wherein the inorganic or organic compound comprises sodium acetate trihydrate, L-tartaric acid disodium, salt dihydrate, sodium citrate dihydrate, hydrate of an inorganic acid, hydrate of an inorganic acid salt, sodium tetraborate decahydrate, sodium hydrogenphosphate heptahydrate, sodium phosphate, dodecahydrate, amylose, starch-based hydrophilic polymer, or a cellulose-based hydrophilic polymer.
 - 19. (Original) The method of claim 1 wherein the degradable material is a composite.
- 20. (Currently Amended) A method of enhancing the permeability of a proppant matrix comprising the step of introducing <u>a plurality of</u> voids into the proppant matrix by a degradation of a degradable material within the **proppant** matrix.
- 21. (Currently Amended) The method of claim 20 wherein the proppant matrix comprises sand, walnut hulls, or <u>man-made proppant particulates</u> a <u>man-made proppant</u> particulates.
- 22. (Original) The method of claim 20 wherein the proppant matrix comprises a curable resin, a tackifying agent, or both.
- 23. (**Original**) The method of claim 22 wherein the curable resin comprises an epoxy, furan, phenolic, furfuryl aldehyde, or furfuryl alcohol resin.

- 24. (Original) The method of claim 20 wherein the proppant matrix comprises interlocking proppant particulates.
- 25. (Original) The method of claim 20 wherein the degradable material comprises a degradable polymer or a dehydrated salt.
- 26. (Currently Amended) The method of claim 25 wherein the degradable polymer comprises a polysaccharide, a chitin, a chitosan, a protein, an aliphatic polyester, a poly(lactide), a poly(glycolide), a poly(ε-caprolactone), a poly(hydroxybutyrate), a poly(amino acid); a poly(ethylene oxide), or a polyphosphazene polysaccharides, chitins, chitosans, proteins, aliphatic polyesters, poly(lactides), poly(glycolides), poly(ε-caprolactones), poly(hydroxybutyrates), polyanhydrides, aliphatic polycarbonates, poly(orthoesters), poly(amino acids); poly(ethylene oxides), or polyphosphazenes.
- 27. (Original) The method of claim 20 wherein the degradable material further comprises a plasticizer.
- 28. (Original) The method of claim 25 wherein the dehydrated salt comprises anhydrous sodium tetraborate or anhydrous boric acid.
- 29. (Original) The method of claim 20 wherein the degradable material comprises poly(lactic acid) and a compound chosen from the group consisting of sodium borate and boric oxide.
- 30. (Original) The method of claim 20 wherein the degradable material comprises a stereoisomer of a poly(lactide).

- 31. (Currently Amended) The method of claim 20 wherein the proppant matrix comprises a poly(lactic acid) degradable material and bauxite proppant particulates, the bauxite proppant particulates having been at least partially coated with a curable epoxy resin, and a polylactic acid degradable material.
- 32. (Original) The method of claim 20 wherein the degradable material is present in the proppant matrix in an amount sufficient to create a desirable number of voids in the proppant matrix.
- 33. (Original) The method of claim 20 wherein the degradable material is present in the proppant composition in an amount of about 0.1% to about 30% by weight of proppant particulates in the composition.
- 34. **(Original)** The method of claim 20 wherein the degradable material comprises particles having a rod-like shape.
- 35. (Original) The method of claim 20 wherein the at least a portion of the voids in the proppant matrix are channel-like in shape.
- 36. (Original) The method of claim 20 wherein the proppant matrix has a conductivity equal to or greater than 4500 darcies at a pressure of about 2000 psi.
- 37. (Original) The method of claim 20 wherein the proppant matrix has a conductivity equal to or greater than 4500 darcies at a pressure of about 4000 psi.
- 38. (Original) The method of claim 20 wherein the proppant matrix has a conductivity equal to or greater than 4000 darcies at a pressure of about 6000 psi.
- 39. (Currently Amended) A proppant matrix eomposition comprising:

 proppant particulates, the proppant particulates defining a plurality of voids

 formed by an irreversible degradation of a degradable material and

 a degradable material that undergoes an irreversible degradation downhole.

- 40. (Currently Amended) The <u>proppant matrix</u> composition of claim 39 wherein the proppant particulates comprise sand, walnut hulls, or <u>man-made proppant particulates</u> a <u>man-made proppant particulates</u>.
- 41. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the proppant particulates have a size of <u>about 10</u> to <u>about 60</u> US mesh.
- 42. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the proppant <u>matrix</u> eomposition further comprises a curable resin, a tackifying agent, or both.
- 43. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 42 wherein the curable resin comprises an epoxy, furan, phenolic, furfuryl aldehyde, or furfuryl alcohol resin.
- 44. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the proppant <u>matrix</u> eomposition comprises interlocking proppant particulates.
- 45. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the degradable material comprises a degradable polymer or a dehydrated salt.
- 46. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 45 wherein the degradable polymer comprises <u>a polysaccharide</u>, a chitin, a chitosan, a protein, an <u>aliphatic polyester</u>, a poly(lactide), a poly(glycolide), a poly(ε-caprolactone), a <u>poly(hydroxybutyrate)</u>, a polyanhydride, an aliphatic polycarbonate, a poly(orthoester), a <u>poly(amino acid)</u>; a poly(ethylene oxide), or a polyphosphazene polysaccharides, ehitins, ehitosans, proteins, aliphatic polyesters, poly(lactides), poly(glycolides), poly(ε-caprolactones), poly(hydroxybutyrates), polyanhydrides, aliphatic polycarbonates, poly(orthoesters), poly(amino acids); poly(ethylene oxides), or polyphosphazenes.
- 47. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the degradable material further comprises a plasticizer.

- 48. (Currently Amended) The <u>proppant matrix</u> composition of claim 45 wherein the dehydrated salt comprises anhydrous sodium tetraborate or anhydrous boric acid.
- 49. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the degradable material comprises poly(lactic acid) and a compound chosen from the group consisting of sodium borate and boric oxide.
- 50. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the degradable material comprises a stereoisomer of a poly(lactide).
- 51. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the proppant <u>particulates comprise</u> eomposition comprises a bauxite proppant particulates, the <u>bauxite proppant particulates having been at least partially</u> coated with a curable epoxy resin, and <u>wherein the degradable material comprises poly(lactic acid)</u> a <u>polylactic acid</u> degradable material.
 - 52. (Cancelled)
- 53. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the degradable material comprises particles having a rod-like shape.
- 54. (Currently Amended) The <u>proppant matrix</u> composition of claim 39 wherein the degradable material comprises an inorganic or organic compound.
- 55. (Currently Amended) The <u>proppant matrix</u> composition of claim <u>54</u> 40 wherein the inorganic or organic compound comprises sodium acetate trihydrate, L-tartaric acid disodium, salt dihydrate, sodium citrate dihydrate, hydrate of an inorganic acid, hydrate of an inorganic acid salt, sodium tetraborate decahydrate, sodium hydrogenphosphate heptahydrate, sodium phosphate, dodecahydrate, amylose, starch-based hydrophilic polymer, or a cellulose-based hydrophilic polymer.

- 56. (Currently Amended) The <u>proppant matrix</u> eomposition of claim 39 wherein the degradable material is a composite.
- 57. (Currently Amended) A <u>proppant matrix permeability enhancing</u> composition for enhancing the permeability of a proppant matrix comprising proppant particulates and a degradable material.
- 58. (Currently Amended) The composition of claim 57 wherein the proppant particulates comprise sand, walnut hulls, or man-made proppant particulates a man-made proppant particulates.
- 59. (Currently Amended) The composition of claim <u>57 wherein</u> the proppant particulates have a size of <u>about</u> 10 to <u>about</u> 60 US mesh.
- 60. (Original) The composition of claim 57 wherein the proppant composition further comprises a curable resin, a tackifying agent, or both.
- 61. **(Original)** The composition of claim 60 wherein the curable resin comprises an epoxy, furan, phenolic, furfuryl aldehyde, or furfuryl alcohol resin.
- 62. (Original) The composition of claim 57 wherein the proppant composition comprises interlocking proppant particulates.
- 63. (Currently Amended) The composition of claim <u>57 wherein</u> the degradable material comprises a degradable polymer or a dehydrated salt.

- 64. (Currently Amended) The composition of claim 63 wherein the degradable polymer comprises a polysaccharide, a chitin, a chitosan, a protein, an aliphatic polyester, a poly(lactide), a poly(glycolide), a poly(ε-caprolactone), a poly(hydroxybutyrate), a poly(amino acid); a poly(ethylene oxide), or a polyphosphazene polysaccharides, chitins, chitosans, proteins, aliphatic polyesters, poly(lactides), poly(glycolides), poly(ε-caprolactones), poly(hydroxybutyrates), polyanhydrides, aliphatic polycarbonates, poly(orthoesters), poly(amino acids); poly(ethylene oxides), or polyphosphazenes.
- 65. (Original) The composition of claim 57 wherein the degradable material further comprises a plasticizer.
- 66. (Original) The composition of claim 63 wherein the dehydrated salt comprises anhydrous sodium tetraborate or anhydrous boric acid.
- 67. (Original) The composition of claim 57 wherein the degradable material comprises poly(lactic acid) and a compound chosen from the group consisting of sodium borate and boric oxide.
- 68. (Original) The composition of claim 57 wherein the degradable material comprises a stereoisomer of a poly(lactide).
- 69. (Currently Amended) The composition of claim 57 wherein the proppant composition comprises a <u>poly(lactic acid) degradable material and</u> bauxite proppant particulates, the bauxite proppant particulates having been <u>at least partially</u> coated with a curable epoxy resin, and a polylactic acid degradable material.
- 70. (Original) The composition of claim 57 wherein the degradable material is present in the proppant composition in an amount of about 0.1% to about 30% by weight of proppant particulates in the proppant composition.

- 71. (Original) The composition of claim 57 wherein the degradable material comprises particles having a rod-like shape.
- 72. (New) A proppant matrix comprising proppant particulates and a plurality of voids, the plurality of voids formed by an irreversible degradation of a degradable material.